PRINTED CIRCUIT BOARD (MODULE / TRANSITION MODULE) REVIEW CHECKLIST

Module Name: _____

Transition Module Name: _____

	Information Included						Comments
	Module			Transition Module			
	YES	NO	N/A	YES	NO	N/A	
General							
Overall Module/Transition Module description of operation and I/O & control							
Schematics	yes						see Schematics
Connector types	yes						see Connector description document conn.pdf
General protocol timing diagrams			n/a				
Pinouts	yes						see Connector pin description document vtm_pinout.pdf
Module has associated Transition Module			n/a				
Mechanical							
Any special subrack requirements			n/a				
PC board							
Mechanical drawings	yes						see mechanical drawing vtm_fab.pdf
Board thickness & top, bottom edge milling to 0.062 inch	yes						see mechanical drawing vtm_fab.pdf
Stiffeners	yes						see prototype board
Warpage			n/a				
Chamfers			n/a				
Clearances checked (both sides)	yes						all problems to be fixed for production run
Non-circuitry areas			n/a				
Connector types							
Specials			n/a				
ESD protection							
Strip (w/o soldermask over it)	yes						
ESD discharge resistors	yes						2MΩ to GND
Front panel							
Module / Transition Module has front panel	yes						see prototype board & vtm_fp.pdf
Injector / ejector / locking handles w / lock washers or liquid threadlock	yes						threadlock will be used in assembly
Center support w / lock washer or liquid threadlock	yes						threadlock will be used in assembly
LEDs, test points & labeling	yes						see prototype board & vtm_fp.pdf
Connected to board circuitry			n/a				
Isolated connectors (cable shield connections & terminations)	yes						holes will be made larger in production
Transition card J2 connector (or shell for alignment)							
Keying							
Any special keying requirements			n/a				
Test & repair							
Extenders							
List of standard & special connectors			n/a				
Special hardware			n/a				
Test fixtures			n/a				
Open side subrack	yes						Will use test stand at argonne
Electrical							
Any special subrack requirements			n/a				
Power requirements							
Power pins used	yes						see Connector pin description document vtm_pinout.pdf
Voltages & currents (module only)	yes						"+5" volt draws ~1.1 amps
If very low currents (e.g., +12 V supply) why not DC-DC converters?			n/a				
Power to Transition Module (how?)			n/a				
Overcurrent (fuses) & overvoltage (tranzorbs) protected	yes						see prototype board & smd.pdf
I/O connector types, pinouts, inputs / outputs & signal levels (technology)							
Front panel	yes						see mechanical drawing vtm_fp.pdf
Rear (front) panel							

J3 backplane area			n/a				
Cable shrouds & latches			n/a				
Cable shield connections	yes						see Connector description document conn.pdf
Power							
Power density			n/a				
Power distribution			n/a				
Air Flow							
Blockage			n/a				
Diverters for hot spots			n/a				